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TITLE: Wool with anti-felting finish - obtained by
pretreatment with
low-pressure plasma followed by treatment with an aqueous
dispersion of self-
dispersing isocyanate

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PATENT-FAMILY:

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JP 2001514341	September 11, 2001	N/A
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DE 19736542 A1	March 4, 1999	G
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WO 9910590 A1	March 16, 1999	N/A
000	D06M 015/568	
AU 9893410 A	June 7, 2000	G
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APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
APPL-DATE		
JP2001514341W	N/A	1998WO-EP05076
August 11, 1998		
JP2001514341W	N/A	2000JP-0507889

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JP2001514341W	Based on	WO 9910590
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DE 19736542A1	N/A	1997DE-1036542
August 22, 1997		
WO 9910590A1	N/A	1998WO-EP05076
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AU 9893410A	N/A	1998AU-0093410
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EP 1005584A1	N/A	1998EP-0946313
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ABSTRACTED-PUB-NO: DE 19736542A
 BASIC-ABSTRACT: NOVELTY - Wool with an anti-felting finish is obtained by subjecting dyed or undyed combed top wool to pretreatment with a low-pressure plasma and then treating it with an aqueous dispersion of self-dispersing isocyanate.

DETAILED DESCRIPTION - The self-dispersing isocyanates have an isocyanate content of 1-25% and are obtained by reacting (A) polyisocyanates with an average NCO functionality of 1.8-4.2 with (B) polyalkylene oxide-alcohols, -amines and/or -thiols of formula R1R2N-(CHX-CHY-O)n-CHX--CHY-ZH (I) and

optionally (C) other NCO- reactive compounds with actual or potential anionic or cationic groups, in which $n = 3-70$; X, Y = H or methyl (if X or Y is methyl, the other must be H); R1, R2 = 1-6C alkyl or acyl (if R1 = acyl, R2 may also be H), and R1 + R2 may be tetra-, penta- or hexa-methylene, optionally with one or two CH2 groups replaced by O and/or NH and/or with 1 or 2 CH2 groups substituted with methyl; Z = O, S or NH . An INDEPENDENT CLAIM is also included for self-dispersing isocyanates as described above.

USE - For the anti-felting treatment of wool.

ADVANTAGE - Pretreatment with plasma produces no effluent, unlike prior-art pretreatment with oxidising and/or reducing agents, and provides a very good antifelting treatment in combination with aqueous isocyanate dispersions. The polyisocyanates used have good handling properties and are stable for many months in the absence of moisture; they are readily dispersed in water without vigorous stirring, to give emulsions with a working time of up to 24 hrs.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS:

WOOL ANTI FELT FINISH OBTAIN PRETREATMENT LOW PRESSURE
PLASMA FOLLOW TREAT
AQUEOUS DISPERSE SELF DISPERSE ISOCYANATE

DERWENT-CLASS: A25 A87 F06

CPI-CODES: A05-G03; A05-J04; A12-G02; F03-C04;

ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1]

018 ; G3725 G3714 P0599 D01 F70 ; S9999 S1070*R

Polymer Index [1.2]

018 ; ND01 ; Q9999 Q9132 ; K9676*R ; K9574 K9483 ;
N9999 N7147 N7034

N7023
 Polymer Index [1.3]
 018 ; B9999 B5447 B5414 B5403 B5276 ; B9999 B5492 B5403
 B5276 ;
 N9999 N7227 N7023 ; K9427 ; K9654 ; N9999 N7090 N7034
 N7023
 Polymer Index [2.1]
 018 ; G1843*R D01 F73 D10*R D18*R ; G1956 G1945 G1843
 D01 F73 D11
 D10 D23 D22 D31 D76 D45 D50 D94 F19 O* 6A ; G1558*R D01
 F47 D23
 D22 D31 D73 D42 D50 D82 D83 ; R00351 G1558 D01 D23 D22
 D31 D42 D50
 D73 D82 F47 ; P1058*R P1592 P0964 H0260 F34 F77 H0044
 H0011 D01
 ; P1581 P1570 P1592 H0260 F77 F78 D01 ; P1570*R F78 D01
 ; H0260
 ; H0011*R ; S9999 S1025 S1014 ; P0055 ; M9999 M2153*R ;
 M9999 M2039
 ; M9999 M2835
 Polymer Index [2.2]
 018 ; ND01 ; Q9999 Q9132 ; K9676*R ; K9574 K9483 ;
 N9999 N7147 N7034
 N7023
 Polymer Index [2.3]
 018 ; K9518 K9483 ; B9999 B3430 B3372 ; B9999 B3532
 B3372 ; B9999
 B5094 B4977 B4740 ; N9999 N5947 ; N9999 N7067 N7034
 N7023 ; N9999
 N7078 N7034 N7023 ; K9927 ; K9632 K9621 ; K9643 K9621 ;
 B9999 B3598
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 Polymer Index [2.4]
 018 ; S* 6A ; H0157

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